

GENERATOR	<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD990738548	2. Page 1 of 1	3. Emergency Response Phone See Block 14 below	4. Manifest Tracking Number 006546624 JJK				
	5. Generator's Name and Mailing Address Alaskan Copper Works 3200 Sixth Avenue South Seattle, WA 98124 Generator's Phone: 206-533-8878			Generator's Site Address (if different than mailing address)						
	6. Transporter 1 Company Name DIVERSIFIED transport			U.S. EPA ID Number AZR000035717						
	7. Transporter 2 Company Name			U.S. EPA ID Number						
DESIGNATED FACILITY	8. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Tucson, AZ 85353 Facility's Phone: (602) 233-9188			U.S. EPA ID Number AZD990735500						
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
					No.	Type				
	X	1. RQ, NA3077, Hazardous waste, solid, n.o.s. (F008), 9, III			001	CF	1350	P	F008	
		2.								
		3.								
		4.								
	14. Special Handling Instructions and Additional Information PO# M06460									
	<b>EMERGENCY CONTACT</b> Call INFOTRAC at: 1-800-635-5053 Use company name "World Resources Company"									
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
TRANSPORTER	Generator's/Officer's Printed/Typed Name Robert Thompson			Signature [Signature]			Month Day Year 12 5 10			
	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:						
	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name ALLEN CHLSCHLAGER			Signature [Signature]			Month Day Year 12 9 10			
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name			Signature			Month Day Year			
	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
	Facility's Phone:									
18c. Signature of Alternate Facility (or Generator) Month Day Year										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H010 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Armando Chavez Signature Armando Chavez Month Day Year 12 13 10										

WORLD RESOURCES CO.  
GROSS 1347 lb  
TARE 77 lb  
NET 1270 lb

10:30AM 12/13/2010  
AQUUM 1270 lb  
12/13/2010 10:30AM

0.64  
Tons

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WAD980738546</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>See Block 14 below</b>	4. Manifest Tracking Number <b>006546624 JJK</b>		
5. Generator's Name and Mailing Address <b>Alaskan Copper Works 3200 Sixth Avenue South Seattle, WA 98124</b> Generator's Phone: <b>206 392 6979</b>				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name <b>DIVERSIFIED transport</b>				U.S. EPA ID Number <b>AZD9800035717</b>			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>World Resources Company 8113 West Sherman Street Tucson, AZ 85733</b> Facility's Phone: <b>(602) 233 0486</b>				U.S. EPA ID Number <b>AZD980735500</b>			
GENERATOR ↓	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. <b>RQ, NA3077, Hazardous waste, solid, n.o.s. (F006), 9, III</b>	<b>201</b>	<b>CF</b>	<b>1350</b>	<b>P</b>	<b>F006</b>
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information <b>EMERGENCY CONTACT</b> <b>Call INFOTRAC at: 1-800-535-5053</b> <b>Use company name "World Resources Company"</b> <b>PO# M006460</b>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name <b>James</b>				Signature <b>[Signature]</b>		Month Day Year <b>12 9 10</b>	
TRANSPORTER ↓	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:				
	Transporter signature (for exports only):						
DESIGNATED FACILITY ↓	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name <b>ALLEN ITHLSCHLAGER</b>		Signature <b>[Signature]</b>		Month Day Year <b>12 9 10</b>		
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H010</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

**U.S. EPA Form 8700-22**

Read all instructions before completing this form.

1. This form has been designed for use on a 12-pitch (elite) typewriter which is also compatible with standard computer printers; a firm point pen may also be used—press down hard.
2. Federal regulations require generators and transporters of hazardous waste and owners or operators of hazardous waste treatment, storage, and disposal facilities to complete this form (EPA Form 8700-22) and, if necessary, the continuation sheet (EPA Form 8700-22A) for both inter- and intrastate transportation of hazardous waste.

Public reporting burden for this collection of information is estimated to average: 30 minutes for generators, 10 minutes for transporters, and 25 minutes for owners or operators of treatment, storage, and disposal facilities. This includes time for reviewing instructions, gathering data, completing, reviewing and transmitting the form. Any correspondence regarding the PRA burden statement for the manifest must be sent to the Director of the Collection Strategies Division in EPA's Office of Information Collection at the following address: U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, DC 20460. Do not send the completed form to this address.

**I. Instructions for Generators**

**Item 1. Generator's U.S. EPA Identification Number**

Enter the generator's U.S. EPA twelve digit identification number, or the State generator identification number if the generator site does not have an EPA identification number.

**Item 2. Page 1 of \_\_\_\_\_**

Enter the total number of pages used to complete this Manifest (i.e., the first page (EPA Form 8700-22) plus the number of Continuation Sheets (EPA Form 8700-22A), if any).

**Item 3. Emergency Response Phone Number**

Enter a phone number for which emergency response information can be obtained in the event of an incident during transportation. The emergency response phone number must:

1. Be the number of the generator or the number of an agency or organization who is capable of and accepts responsibility for providing detailed information about the shipment;
2. Reach a phone that is monitored 24 hours a day at all times the waste is in transportation (including transportation related storage); and
3. Reach someone who is either knowledgeable of the hazardous waste being shipped and has comprehensive emergency response and spill cleanup/incident mitigation information for the material being shipped or has immediate access to a person who has that knowledge and information about the shipment.

**Note:** Emergency Response phone number information should only be entered in Item 3 when there is one phone number that applies to all the waste materials described in Item 9b. If a situation (e.g., consolidated shipments) arises where more than one Emergency Response phone number applies to the various wastes listed on the manifest, the phone numbers associated with each specific material should be entered after its description in Item 9b.

**Item 4. Manifest Tracking Number**

This unique tracking number must be pre-printed on the manifest by the forms printer.

**Item 5. Generator's Mailing Address, Phone Number and Site Address**

Enter the name of the generator, the mailing address to which the completed manifest signed by the designated facility should be mailed, and the generator's telephone number. Note, the telephone number (including area code) should be the normal business number for the generator, or the number where the generator or his authorized agent may be reached to provide instructions in the event the designated and/or alternate (if any) facility rejects some or all of the shipment. Also enter the physical site address from which the shipment originates only if this address is different than the mailing address.

**Item 6. Transporter 1 Company Name, and U.S. EPA ID Number**

Enter the company name and U.S. EPA ID number of the first transporter who will transport the waste. Vehicle or driver information may not be entered here.

**Item 7. Transporter 2 Company Name and U.S. EPA ID Number**

If applicable, enter the company name and U.S. EPA ID number of the second transporter who will transport the waste. Vehicle or driver information may not be entered here.

If more than two transporters are needed, use a Continuation Sheet(s) (EPA Form 8700-22A).

**Item 8. Designated Facility Name, Site Address, and U.S. EPA ID Number**

Enter the company name and site address of the facility designated to receive the waste listed on this manifest. Also enter the facility's phone number and the U.S. EPA twelve digit identification number of the facility.

**Item 9. U.S. DOT Description (Including Proper Shipping Name, Hazard Class or Division, Identification Number, and Packing Group)**

**Item 9a.** If the wastes identified in Item 9b consist of both hazardous and nonhazardous materials, then identify the hazardous materials by entering an "X" in this item next to the corresponding hazardous material identified in Item 9b.

**Item 9b.** Enter the U.S. DOT Proper Shipping Name, Hazard Class or Division, Identification Number (UN/NA) and Packing Group for each waste as identified in 49 CFR 172. Include technical name(s) and reportable quantity references, if applicable.

**Note:** If additional space is needed for waste descriptions, enter these additional descriptions in Item 27 on the Continuation Sheet (EPA Form 8700-22A). Also, if more than one Emergency Response phone number applies to the various wastes described in either Item 9b or Item 27, enter applicable Emergency Response phone numbers immediately following the shipping descriptions for those items.

**Item 10. Containers (Number and Type)**

Enter the number of containers for each waste and the appropriate abbreviation from Table I (below) for the type of container.

**TABLE I.—TYPES OF CONTAINERS**

BA = Burlap, cloth, paper, or plastic bags.	DT = Dump truck.
CF = Fiber or plastic boxes, cartons, cases.	DW = Wooden drums, barrels, kegs.
CM = Metal boxes, cartons, cases (including roll-offs).	HG = Hopper or gondola cars.
CW = Wooden boxes, cartons, cases.	TC = Tank cars.
CY = Cylinders.	TP = Portable tanks.
DE = Fiberboard or plastic drums, barrels, kegs.	TT = Cargo tanks (tank trucks).
DM = Metal drums, barrels, kegs.	

**Item 11. Total Quantity**

Enter, in designated boxes, the total quantity of waste. Round partial units to the nearest whole unit, and do not enter decimals or fractions. To the extent practical, report quantities using appropriate units of measure that will allow you to report quantities with precision. Waste quantities entered should be based on actual measurements or reasonably accurate estimates of actual quantities shipped. Container capacities are not acceptable as estimates.

**Item 12. Units of Measure (Weight/Volume)**

Enter, in designated boxes, the appropriate abbreviation from Table II (below) for the unit of measure.

**TABLE II.—UNITS OF MEASURE**

G = Gallons (liquids only).	N = Cubic Meters.
K = Kilograms.	P = Pounds.
L = Liters (liquids only).	T = Tons (2000 Pounds).
M = Metric Tons (1000 kilograms).	Y = Cubic Yards.

**Note:** Tons, Metric Tons, Cubic Meters, and Cubic Yards should only be reported in connection with very large bulk shipments, such as rail cars, tank trucks, or barges.

**Item 13. Waste Codes**

Enter up to six federal and state waste codes to describe each waste stream identified in Item 9b. State waste codes that are not redundant with federal codes must be entered here, in addition to the federal waste codes which are most representative of the properties of the waste.


**Item 14. Special Handling Instructions and Additional Information**

1. Generators may enter any special handling or shipment-specific information necessary for the proper management or tracking of the materials under the generator's or other handler's business processes, such as waste profile numbers, container codes, bar codes, or response guide numbers. Generators also may use this space to enter additional descriptive information about their shipped materials, such as chemical names, constituent percentages, physical state, or specific gravity of wastes identified with volume units in Item 12.
2. This space may be used to record limited types of federally required information for which there is no specific space provided on the manifest, including any alternate facility designations; the manifest tracking number of the original manifest for rejected wastes and residues that are re-shipped under a second manifest; and the specification of PCB waste descriptions and PCB out-of-service dates required under 40 CFR 761.207. Generators, however, cannot be required to enter information in this space to meet state regulatory requirements.

**Item 15. Generator's/Officer's Certifications**

1. The generator must read, sign, and date the waste minimization certification statement. In signing the waste minimization certification statement, those generators who have not been exempted by statute or regulation from the duty to make a waste minimization certification under section 3002(b) of RCRA are also certifying that they have complied with the waste minimization requirements. The Generator's Certification also contains the required attestation that the shipment has been properly prepared and is in proper condition for transportation (the shipper's certification). The content of the shipper's certification statement is as follows: "I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent." When a party other than the generator prepares the shipment for transportation, this party may also sign the shipper's certification statement as the offeror of the shipment.
2. Generator or Offeror personnel may preprint the words, "On behalf of" in the signature block or may hand write this statement in the signature block prior to signing the generator/offeror certification, to indicate that the individual signs as the employee or agent of the named principal.

**Note:** All of the above information except the handwritten signature required in Item 15 may be pre-printed.

	<b>WORLD RESOURCES COMPANY</b>	<b>LDRN</b> <b>LAND DISPOSAL RESTRICTION NOTICE</b>
	ARIZONA RECYCLING FACILITY	
	<i>...in partnership with the environment®</i>	

A copy of this Notice must be retained by the generator for at least three (3) years pursuant to U.S. EPA regulations, 40 CFR §268.7(a)(8). Moreover, the generator should check the hazardous-waste regulations of its own state, because if there is a state analogue to the federal regulation, it may require longer retention time, such as five (5) years. It should also be noted that the federal regulation (and, typically, a state analogue as well) requires the retention period to be extended in specified cases.

**TO:** World Resources Company  
 8113 West Sherman Street  
 Tolleson, AZ 85353

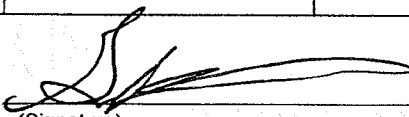
**FROM:** Alaskan Copper Works  
 (Company Name)  
3200 Sixth Avenue South  
 (Address)  
Seattle, WA 98124  
 (Phone)

**Manifest Number:** 006546624 JJK

**Date of Shipment:** 12-9-10

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR §268.7(a)(2) and is shown below:

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
F006	Non-wastewater	40 CFR §268.40

  
 (Signature)  
Gerald Thompson  
 (Printed Name)  
Environmental Asst.  
 (Title)

# Material Safety Data Sheet

MSDS ID # AZ-10-F

F006 Recyclable Material (Filter Cake)

Recycler:

**World Resources Company**

8113 West Sherman Street

Tolleson, AZ 85353

Tel: (602) 233 9166 Fax: (623) 936 9164

November 2007 DLS

Call INFOTRAC only in the event of  
emergencies during shipping that

involve a spill, leak, fire or accident

(all calls are recorded)

For Emergencies During Shipping in  
the US or Canada, Day or Night,Call: **INFOTRAC 1.800.535.5053**

Reference Company Name:

"World Resources Company"

Outside the United States Call Collect:  
001-352-323-3500

## Section 1

## Material Identification

EPA Waste Classification: F006

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge

Chemical Family: Metallic (Hydroxide) Precipitates

Synonym: Non-ferrous Metal Hydroxide Filter Cake

DOT Shipping Name: RQ, Hazardous waste solid, n.o.s. (F006)

DOT Hazard Class: 9

DOT Packing Group: III

DOT Identification Number: NA 3077

Guide 171 of the North American Emergency Response Guidebook Applies

## Section 2

## Hazardous Ingredients

Ingredient:	CAS Number:	Content (%):	OSHA PEL (8hr TWA):	Toxicology (rat, oral):
Copper Hydroxide	20427-59-2	0 - 30	1.0 mg(Cu)/m <sup>3</sup> (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0 - 15	1.0 mg(Ni)/m <sup>3</sup> (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0 - 15	5.0 mg/m <sup>3</sup> (Dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0 - 10	5.0 mg/m <sup>3</sup> (Dust)	LD-50 Not Determined

## Section 3

## Physical and Reactivity Data

Description: Solid, Clay-like, Gray/Green  
to Brown, Moisture ~ 30 - 80%

Specific Gravity: 2.5 to 3.5

Solubility: Insoluble in Water

Density: 50 - 90 lbs/ft<sup>3</sup>

Incompatible Reactivity: None Known

Vapor Pressure: Insignificant

Stability: Avoid Contact with Acids

Boiling Point: Above 2,600°C

Melting Point: Above 1,800°C

pH: 7.0 to 10.0 Odor: Nil

Polymerization: Will Not Occur

## Section 4

## Fire and Explosion Data

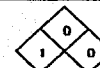
Flashpoint: Nonflammable

Special Firefighting Procedures: None

Decomposition (Due to Fire or Explosion): None

Oxidation: Non-oxidizing

Explosive: Non-explosive

NFPA  
Fire Diamond

## Section 5

## Toxicity

Listed Carcinogen Components: Nickel

Toxicology: See Sec. 2

Route of Entry: Inhalation, Ingestion

## Section 6

## Health Effects and First Aid

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin with prolonged contact. Wash with soap and water.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions. Unprotected long-term overexposure may cause effects to the following target organs or body systems - blood, digestive, respiratory, liver, kidneys and skin.

## Section 7

## Precautions for Safe Handling

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with this material. The PPE should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain.

Spills: Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to consignee or return to World Resources Company at the above address.

## Section 8

## Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required.

Eye Protection: Safety glasses recommended.

Other Protective Equipment: Coveralls are recommended, but not required.

Hand Protection: Gloves recommended.

## Section 9

## Generator's Verification

This MSDS describes the material listed in the attached Manifest #: 006546624

Company Name: Alaskan Copper Works



Company Address: 3200 Sixth Avenue South, Seattle, WA 98124

Telephone: 206-382-8379

Date: 12-9-10

Signature:



REQUESTED BY 	DATE 12-9-10	APPROVED BY 	DATE 12-9-10
<input checked="" type="checkbox"/> ✓ HERE FOR RETURN OF YELLOW COPY		TO BE FILLED IN BY PURCHASING DEPT.	
PURPOSE OR USE Recycle		P.O. NUMBER 1106460	
DELIVERY NEEDED BY 12-9-10		VENDOR	
SHIP TO ADDRESS 628 S. Harvard St		CONTACT	TELEPHONE NO.
SUGGESTED VENDOR World Resources		DELIVERY PROMISED	SHIP VIA



[illegible]

REQUESTED BY <i>[Signature]</i>	DATE 12-9-10	APPROVED BY <i>[Signature]</i>	DATE 12-9-10
<input checked="" type="checkbox"/> ✓ HERE FOR RETURN OF YELLOW COPY		TO BE FILLED IN BY PURCHASING DEPT.	
PURPOSE OR USE Recycle		P.O. NUMBER 1106460	
DELIVERY NEEDED BY 12-9-10		VENDOR	
SHIP TO ADDRESS 628 S. Highland St		CONTACT	TELEPHONE NO.
SUGGESTED VENDOR World Resources		DELIVERY PROMISED	SHIP VIA